

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions of claims in the application.

1. (Currently amended) Method ~~for improved power transmission controlling in duplex time division cellular systems supporting multislot services~~, comprising:

at a transmission power controller, obtaining a common target signal quality level; at said transmission power controller, obtaining individual service quality levels each relating to one of several individual time slots; wherein said individual time slots are assigned to one composite transport channel for a data stream resulting from combining of one or several transport channels;

at said transmission power controller, determining individual target signal quality offset levels each relating to one of said individual time slots on the basis of said individual service quality levels; and

at said transmission power controller, determining individual target signal quality levels each relating to one of said individual time slots on the basis of said common target signal quality levels and said individual target signal quality offset levels such that controlling transmission power ~~e~~ontrrolling for each individual time slot is obtainable, ~~which~~ wherein said transmission power is adapted to specific interference conditions of each one of said individual time slots,

wherein said transmission power controller is arranged in a radio access network or a cellular terminal of a time division duplex cellular system supporting multislot services.

2. (Currently amended) Method according to claim 1, further comprising:

at said transmission power controller, determining said individual target signal quality offset levels by mapping said individual service quality levels from a service quantity scale to a signal quantity scale.

3. (Currently amended) Method according to claim 1, further comprising:

at said transmission power controller, mapping a difference between said individual service quality levels and a combined individual service quality level for determining said individual target signal quality offset levels.

4. (Original) Method according to claim 3, wherein said combined individual service quality level is a function of said individual service quality levels.

5. (Currently amended) Method according to claim 1, wherein said individual service quality levels are bit error ratios of each individual time slot.

6. (Previously presented) Method according to claim 1, wherein said common target signal quality level is adjusted in accordance with a common target service quality level and a common measured service quality level being determined from said data transmitted on said composite transport channel.

7. (Currently amended) Method according to claim 1, wherein said common target signal quality level is obtainable from an outer loop power control mechanism.

8. (Previously presented) Method according to claim 1, wherein said common target signal quality level is a common target signal to interference ratio.

9. (Currently amended) Method according to claim 1, wherein said transmission power controlling is capable~~method allows~~ for issuing transmission power control commands for each time slot, wherein said transmission power ~~controlling is~~control commands are applicable to control transmission power for data communications in uplink ~~and/or~~ and downlink direction.

10. (Previously presented) Method according to claim 1, wherein said composite transport channel is a coded composite transport channel.

11. (Currently amended) Method according to claim 1, wherein said time division duplex cellular system is a wideband code division multiple access - time division duplex (WCDMA-TDD) system and particularly a time division - synchronous code division multiple access (TD-SCDMA) system.

12. (Canceled)

13. (Currently amended) Computer ~~program product for executing a method for improved transmission power controlling in duplex time division cellular systems supporting multislot services, readable storage medium comprising program code sections stored on a machine readable medium for carrying out the steps of claim 1 thereon, which when said program product is run on a computer, a terminal, a network device, a mobile terminal, or a mobile communication enabled terminal perform the method comprising:~~

obtaining a common target signal quality level;
obtaining individual service quality levels each relating to one of several individual time slots, wherein said individual time slots are assigned to one composite transport channel for a data stream resulting from combining of one or several transport channels;

determining individual target signal quality offset levels each relating to one of said individual time slots on the basis of said individual service quality levels; and

determining individual target signal quality levels each relating to one of said individual time slots on the basis of said common target signal quality levels and said individual target signal quality offset levels such that transmission power controlling is obtainable, which is adapted to specific interference conditions of each one of said individual time slots.

14. (Canceled)

15. (Currently amended) Transmission power controller ~~for time division duplex cellular systems supporting multislot services~~, comprising at least

means for obtaining a common target signal quality level;
means for obtaining individual service quality levels each relating to one of several individual time slots; wherein said individual time slots are assigned to one composite transport channel for a data stream resulting from combining of one or several transport channels;

means for determining individual target signal quality offset levels each relating to one of said individual time slots on the basis of said individual service quality levels; and

means for determining individual target signal quality levels each relating to one of said individual time slots on the basis of said common target signal quality level and said individual target signal quality offset levels such that said transmission power controller is [[able]]enabled to specifically adapt transmission power for each individual time slot to individual interference conditions of each one of said individual time slots,

wherein said transmission power controller is arranged in a radio access network or a cellular terminal of a time division duplex cellular system supporting multislot services.

16. (Previously presented) Transmission power controller according to claim 15, wherein said means for determining individual target signal quality offset levels comprises

means for mapping said individual service quality levels from a service quantity scale to a signal quantity scale.

17. (Currently amended) Transmission power controller according to claim 15, further comprising:

means for mapping a difference between said individual service quality levels and a combined individual service quality level for determining said individual target signal quality offset levels.

18. (Currently amended) Transmission power controller according to claim 15, further comprising:

means for adjusting said common target signal quality level in accordance with a common target service quality level and a common measured service quality level being determined from said data transmitted on said composite transport channel.

19. (Previously presented) Transmission power controller according to claim 15, wherein said individual service quality levels are bit error ratios.

20. (Previously presented) Transmission power controller according to claim 15, wherein said common target signal quality level is a common target signal to interference ratio.

21. (Currently amended) Transmission power controller according to claim 15, further comprising:

outer loop power control mechanism from which said common target signal quality level is obtainable.

22. (Currently amended) Transmission power controller according to claim 15, wherein said transmission power controller is provided for wideband code division multiple access - time division duplex (WCDMA-TDD) systems and particularly for time division - synchronous code division multiple access (TD-SCDMA) systems.

23. (Currently amended) Cellular terminal capable to operate in a ~~cellular~~ time division duplex cellular system supporting multislots services, comprising at least a transmission power controller for adjusting transmission power control of downlink data transmissions, wherein said transmission power controller is a transmission power controller according to claim 15.

24. (Currently amended) Base station for ~~cellular~~ time division duplex cellular system supporting multislots services, comprising at least a transmission power controller for adjusting transmission power control of uplink data transmissions, wherein said transmission power controller is a transmission power controller according to claim 15.

25. (Currently amended) Radio access network system of a ~~cellular~~ time division duplex cellular system supporting multislots services, wherein said radio access network system comprises at least one base station and at least one radio network controller, wherein said radio access network system comprises additionally a transmission power controller for adjusting transmission power control of uplink data transmissions, wherein said transmission power controller is a transmission power controller according to claim 15.

26. (Currently amended) Method according to claim 2, further comprising:
at said transmission power controller, mapping a difference between said individual service quality levels and a combined individual service quality level for determining said individual target signal quality offset levels.

27. (Previously presented) Method according to claim 6, wherein said common target signal quality level is obtainable from an outer loop power control mechanism.

28. (Currently amended) Transmission power controller according to claim 16, further comprising:

means for mapping a difference between said individual service quality levels and a combined individual service quality level for determining said individual target signal quality offset levels.